

Serial No. 09/835,839
Reply to Office Action of August 25, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1 (Currently Amended). A system for caching network resources comprising:
- a server having network resources stored thereon;
 - a client generating requests for the network resources;
 - an intermediary server configured to receive requests from the client and retrieve the network resources from the server, ~~wherein the intermediary server comprises a web server;~~
 - a cache controlled by the intermediary server for caching selected network resources configured to store program constructs comprising software code, applets, scripts, active controls, wherein the intermediary server actively selects network resources for the cached resources to include more than the requested resources including speculatively pre-selecting network resources for the cached resources based on state information of the requests and wherein at least some of the cached resources are selected both in response to the requests and explicitly selected to prevent future client requests from being communicated to the server.
- 2 (Original). The system of claim 1 wherein the cache includes only a home page for at least one web site.
- 3 (Original). The system of claim 1 wherein the intermediary server comprises a front-end computer and a back-end computer.
- 4 (Original). The system of claim 3 wherein both the front-end computer and the back-end computer implement a cache data structure.

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5 (Original). The system of claim 4 further comprising:

a first page cached on the front-end computer cache, the first page associated with a plurality of other resources, wherein the other resources are cached on the back-end computer cache.

6 (Original). The system of claim 5 wherein the association is explicit in links within the first page that point to the secondary resources.

7 (Original). The system of claim 5 wherein the association is implicit in user access patterns.

8 (Original). The system of claim 5 wherein the association is explicitly defined by the site owner.

9 (Original). The system of claim 1 wherein the cache is configured to store web pages and elements thereof.

10 (Cancelled).

11 (Original). The system of claim 1 wherein the cache is configured to store files.

12 (Original). The system of claim 1 further comprising:

means within the intermediary server for merging a current request for network resources that are not in the cache with a prior issued pending request for the same network resources.

13 (Currently Amended). A cache system comprising:

a communication network;

a plurality of network-connected intermediary servers each having an interface for receiving client requests for network resources, each intermediary server having a cache associated therewith, ~~wherein the intermediary servers each comprise a web server, wherein the intermediary server actively selects~~

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network resources for the cache to include more than the requested resources including speculatively pre-selecting network resources for the cache based on state information of the requests; and

communication channels linking each intermediary server with a set of neighboring intermediary servers for exchanging cache contents amongst the intermediary servers.

14-17 (Cancelled).

18 (Currently Amended). A cache system comprising:

a front-end web server implementing a first cache and configured to receive client requests and generate responses to the client requests, and wherein the first cache is configured to store program constructs comprising software code, applets, scripts, active controls;

a back-end web server implementing a second cache and configured to receive requests from the front-end server and generate responses to the front-end server;

an origin server having content stored thereon;

a communication channel linking the front-end server and the back-end server; and

a cache management mechanism in communication with the front-end computer and the back-end computer to selectively fill the first and second caches, wherein at least part of the first and second caches is each speculatively based on state information of the client requests.

19 (Original). The cache system of claim 18 wherein the cache management mechanism comprises a process within the front-end server for receiving responses to client requests and placing the received responses in the cache.

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20 (Original). The cache system of claim 18 wherein the cache management mechanism comprises a process within the front-end server for generating, sua sponte, requests and placing the responses to the sua sponte requests in the cache.

21 (Original). The cache system of claim 18 wherein the cache management mechanism comprises processes for populating one cache with contents from another cache.

22 (Currently Amended). A system for caching network resources comprising:

- a plurality of intermediary web servers configured to receive client requests generated by client applications and retrieve request-specified network resources;

- a cache implemented within each of the intermediary web servers and configured to store selected network resources based at least partially on state information of client requests, and further configured to store program constructs comprising software code, applets, scripts, active controls; and

- a resolver mechanism for supplying a network address of the intermediary web server to the client applications, wherein the resolver mechanism dynamically selects a particular intermediary web server from amongst the plurality of intermediary web servers based at least in part on the content of each intermediary web_server's cache.

23 (Original). The system of claim 22 further comprising:

- a redirection mechanism within a first of the intermediary servers configured to redirect a client request from the first intermediary server to a second of the intermediary servers based at least in part on the content of the first and second intermediary server's caches.

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24 (Currently Amended). A cache system comprising:

a first front-end server implementing a first cache and configured to receive client requests and generate responses to the client requests;

a second front-end server implementing a second cache and configured to receive client requests and generate responses to the client requests;

an origin server having content stored thereon;

a communication channel linking the first front-end server and the second front-end server; and

a cache management mechanism in communication with the first and second front-end computers to selectively fill the second cache in response to a client request received by the first front-end server based at least partially on state information of the client requests.

25 (Original). The cache system of claim 24 wherein the cache management mechanism selectively updates the second cache based upon knowledge that subsequent client requests will be directed to the second front-end server.

[[25]]26 (Currently Amended). The cache system of claim 24 wherein the cache management mechanism selectively updates the second cache based upon anticipation that subsequent client requests will be directed to the second front-end server.

27 – 29 (Cancelled).